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SOURCE Elektrichestvo, No 11, 1949.

NEW BOOKS ON ELECTRICITY
ELECTRICAL ENGINEERING, AND ELECTRIC POWER

The Road to Television (Put' v televedeniye), Klopov, A. Ya., Gosenergoizdat, 1949, 80 pp, 2 rubles, 65 kopeks.

Notes work of following contributors to television: A. G. Stoletov, who established the basic law regarding the extraction of electrons from the surface of a metal by light (photoemission) and constructed the first photoelectric cell; B. L. Rozing, who pointed out the right road for television, i.e., the utilization of the practically inertia-less electronic beam, and in 1911 he obtained the first electronic image; and S. A. Katayev, who, in 1932, was the first to suggest the construction of a transmitting tube based on the photoelectric charge accumulation effect discovered by Rozing. Numerous other Soviet scientists and inventors then developed the perfected apparatus of modern television. Gives the main facts on present-day television technique. Well illustrated.

The Fundamentals of the Theory of Electricity (Osnovy teorii elektrichestva), Tamm, I. Ye., Gostekhizdat, 4th edition, 1949, 627 pp, 18 rubles. Approved as a textbook for universities.

Present (fourth) edition is in the main a repetition of the third, which appeared in 1946. Distinguishing feature of the new edition is the lengthier introduction, which gives a brief historical review of the most important work on electricity by Russian scientists. Mention is made of the main works on a group of problems treated in the book, viz., problems of macroscopic electrodynamics.

Induction Furnaces for Melting Metals and Alloys (Induktsionnyye pechi dlya plavki metallov i splavov), Farbman, S. A., Kolobnev, I. F., Metallurgizdat, 1949, 540 pp, 19 rubles.

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Physicotechnical Properties and Use of Vitreofibrous Materials (Fiziko-tekhnicheskiye svoystva i primeneniye steklovoloknistika materialov), edited by M. G. Chernyak, Ministry of Light Industry USSR. Works of the All-Union Scientific Research Institute of Glass Fiber, Gizlegprom, 1949, 164 pp, 8 rubles.

Glass fiber is a valuable new material which is used especially as a heat-resistant electric insulating material. From the electrician's point of view, the most interesting articles in the collection are "Glass Fiber - A New Material in Engineering" by Stalin Prize Laureate M. G. Chernyak, Candidate in Technical Sciences "The Electrical Properties of Glass Fabric Containing Certain Compositions of Glass" by Stalin Prize Laureate M. S. Aslanova, Candidate in Technical Sciences and "Physicotechnical Properties of Glass Fibers" by M. S. Aslanova and S. Z. Edel'shteyn.

X-Ray Apparatus (Rentgenovskiy apparat), Gosenergoizdat, 1949, 303 pp, 14 rubles, 60 kopeks.

In contrast to the ordinary examination of X-ray apparatus according to purpose (diagnostic, therapeutic, for irradiating materials, for structural analysis, etc) the author of this book, which is intended for engineers and technicians concerned with production, installation, and repair of X-ray apparatus, discusses, in the main, the electrical features. Contains design information, rectifier circuits, descriptions and various instructions relating to X-ray tubes and high-voltage valves, transformers, methods of current rectification and voltage amplification, automatic equipment used in X-ray installations, etc. Gives some general information on X-rays. Discusses super-high voltages.

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